

Wireshark Lab.

You will need Wireshark installed. You can download it from <https://www.wireshark.org/download.html>. If you need a refresher on how to use Wireshark, you can follow introductory videos found here: <https://www.wireshark.org/learn>

Setup.

1. Start Wireshark and monitor your adapter (wifi or Ethernet). Ensure Wireshark is capturing traffic.
2. Disconnect your computer from the network (Turn off Wifi or Ethernet). If you are using a cabled connection, an easy way is to disconnect the cable.
3. Start capturing packets.
4. Connect your computer to the Network (connect wifi, or connect the cable). Look at packets being captured.
5. Wait 1 minute then load the Toronto Star web page at <https://www.thestar.com/>
6. Stop the capture. Save the packet capture file. Use the naming convention **Lab2_yourname.pcapng**

Analysis: Answer these questions. Support your answers with images from Wireshark.

1. Find your default router. Which IP address the default router is using? Show a screen capture with packets **sent** to the default router.
2. What is the IP address your computer is using on the wifi/ethernet adapter? Show a screen capture to support your answer.
3. What is the protocol used to obtain your IP Address? Show the screen capture with **this** protocol.
4. What is the protocol that is used to find the MAC address of the default router? What is the MAC address of the default router? Show a screenshot with **this** protocol.

What to submit.

Submit the **PDF report** and the **pcapng** file.

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